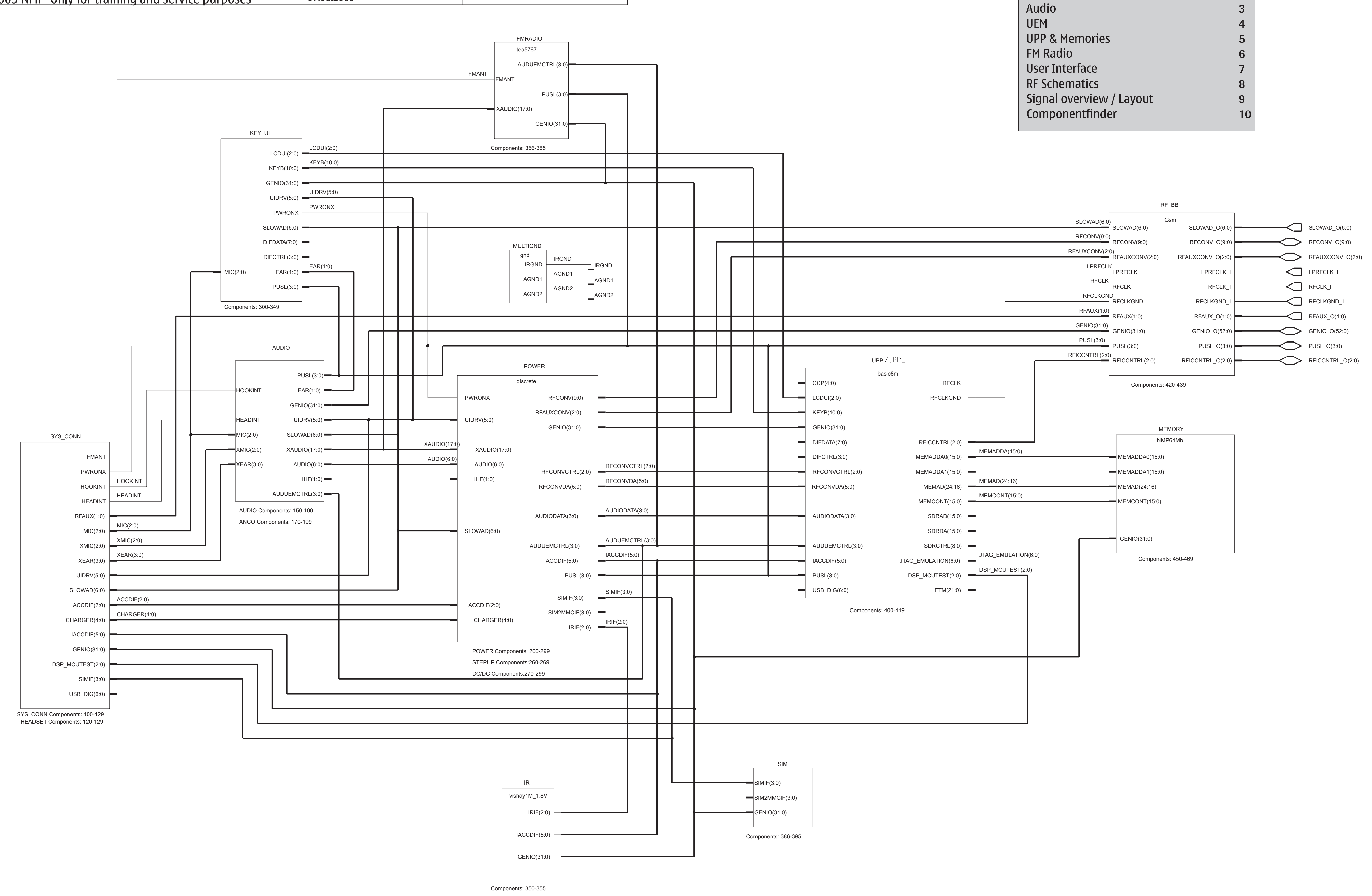
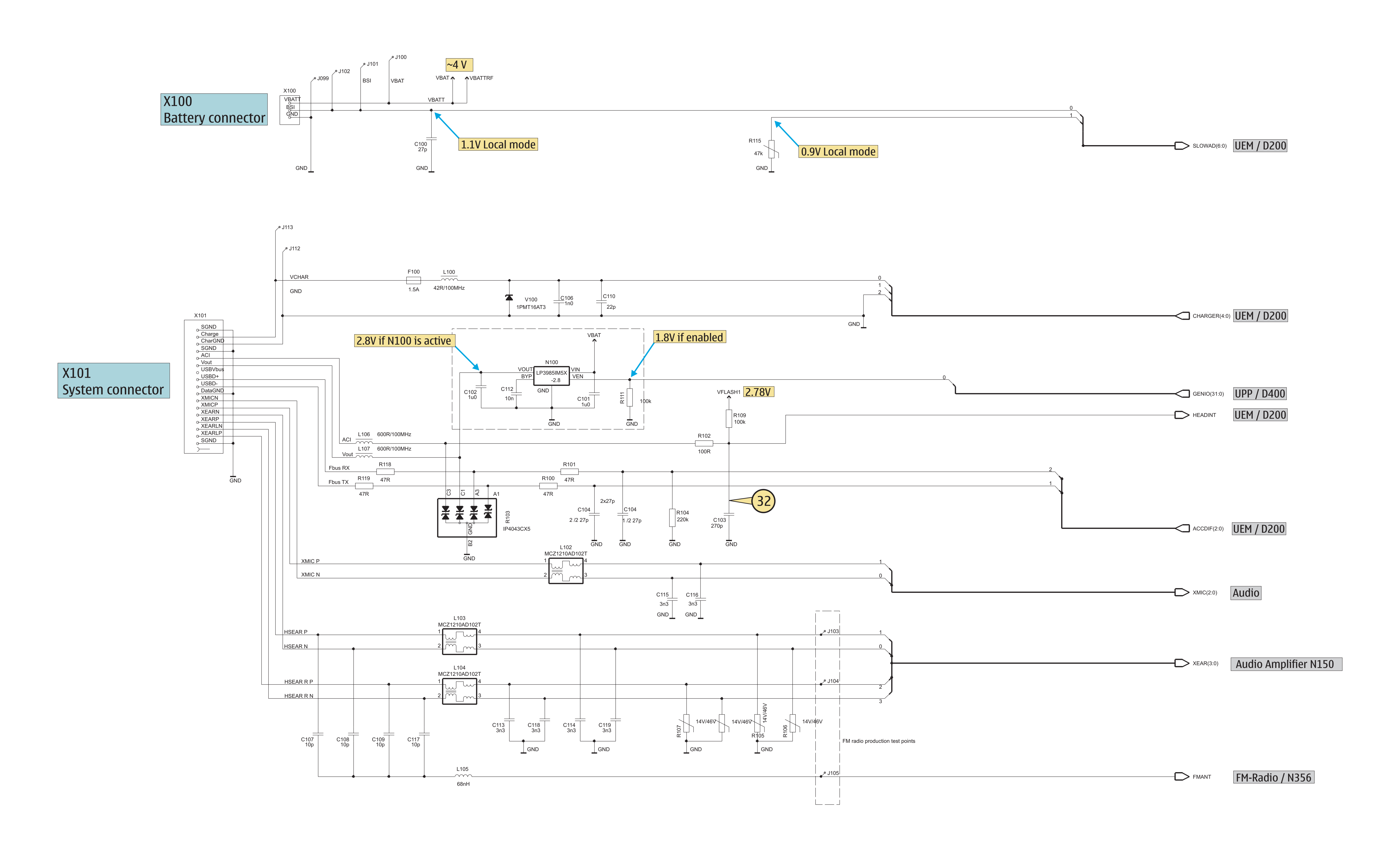
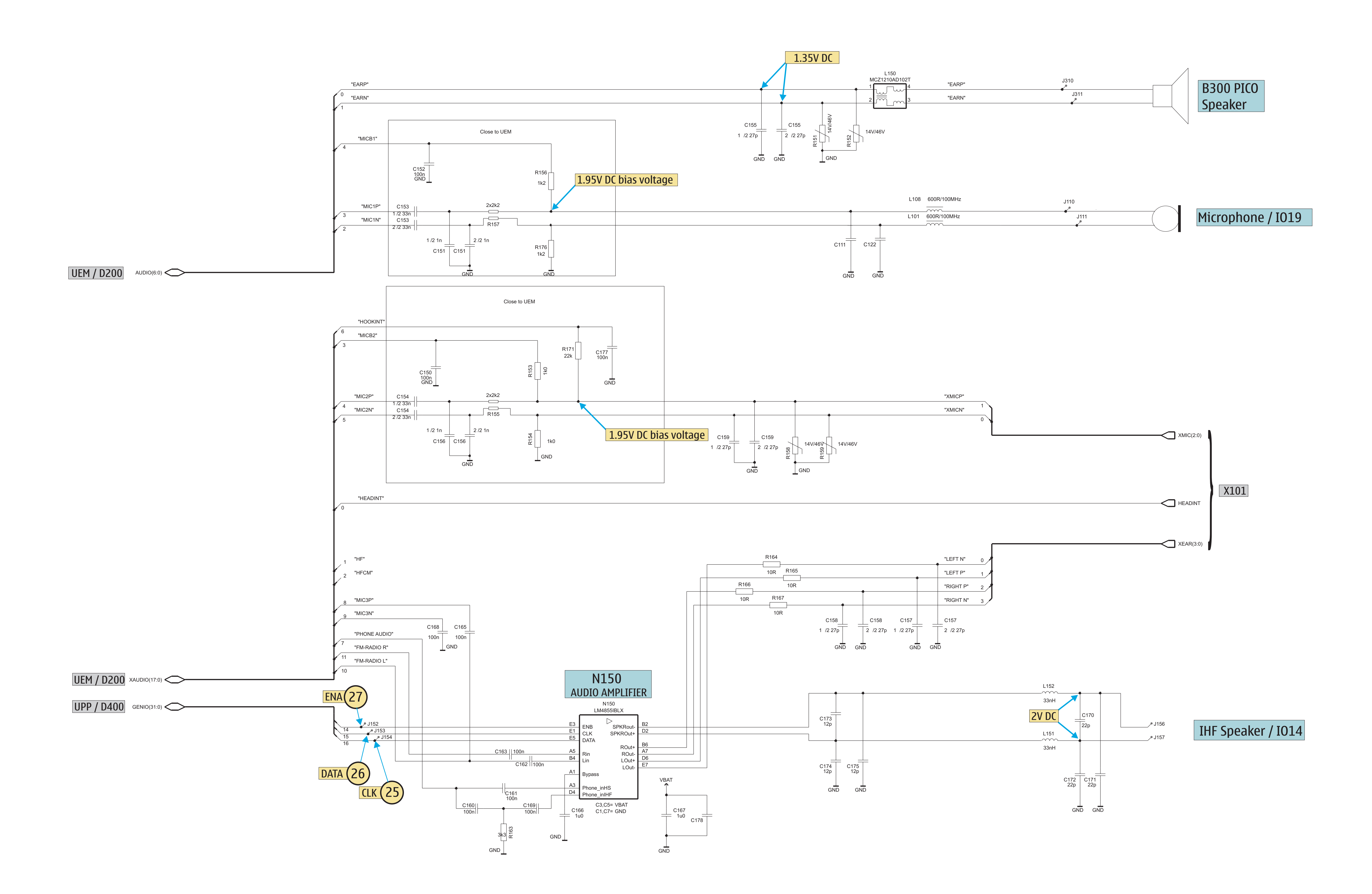
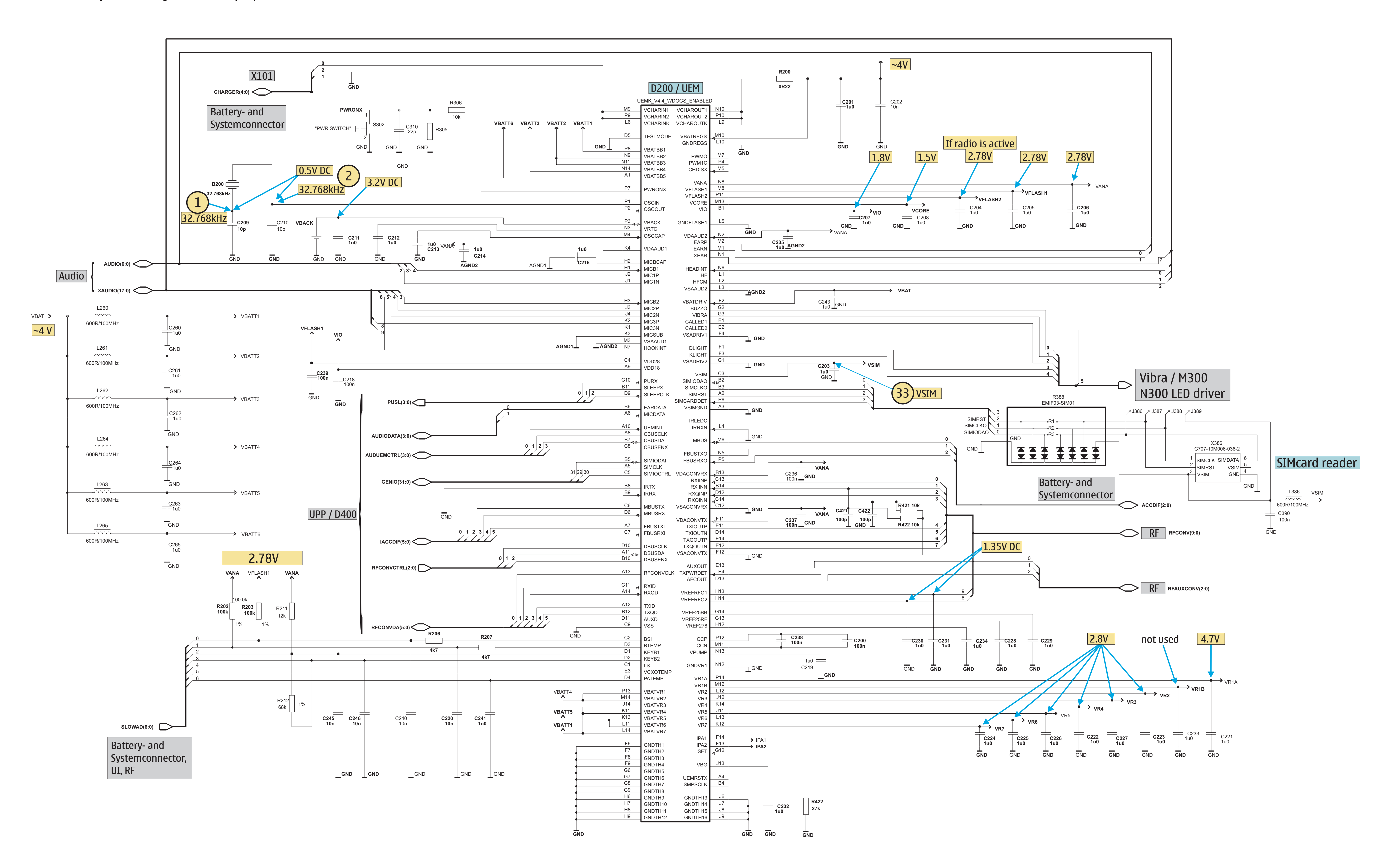
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X100
Battery connector
~4 V
1.1V Local mode
0.9V Local mode
UEM / D200
X101
System connector
2.8V if N100 is active
1.8V if enabled
2.78V
UPP / D400
UEM / D200
UEM / D200
32
UEM / D200
Audio
Audio Amplifier N150
FM-Radio / N356
FM radio production test points

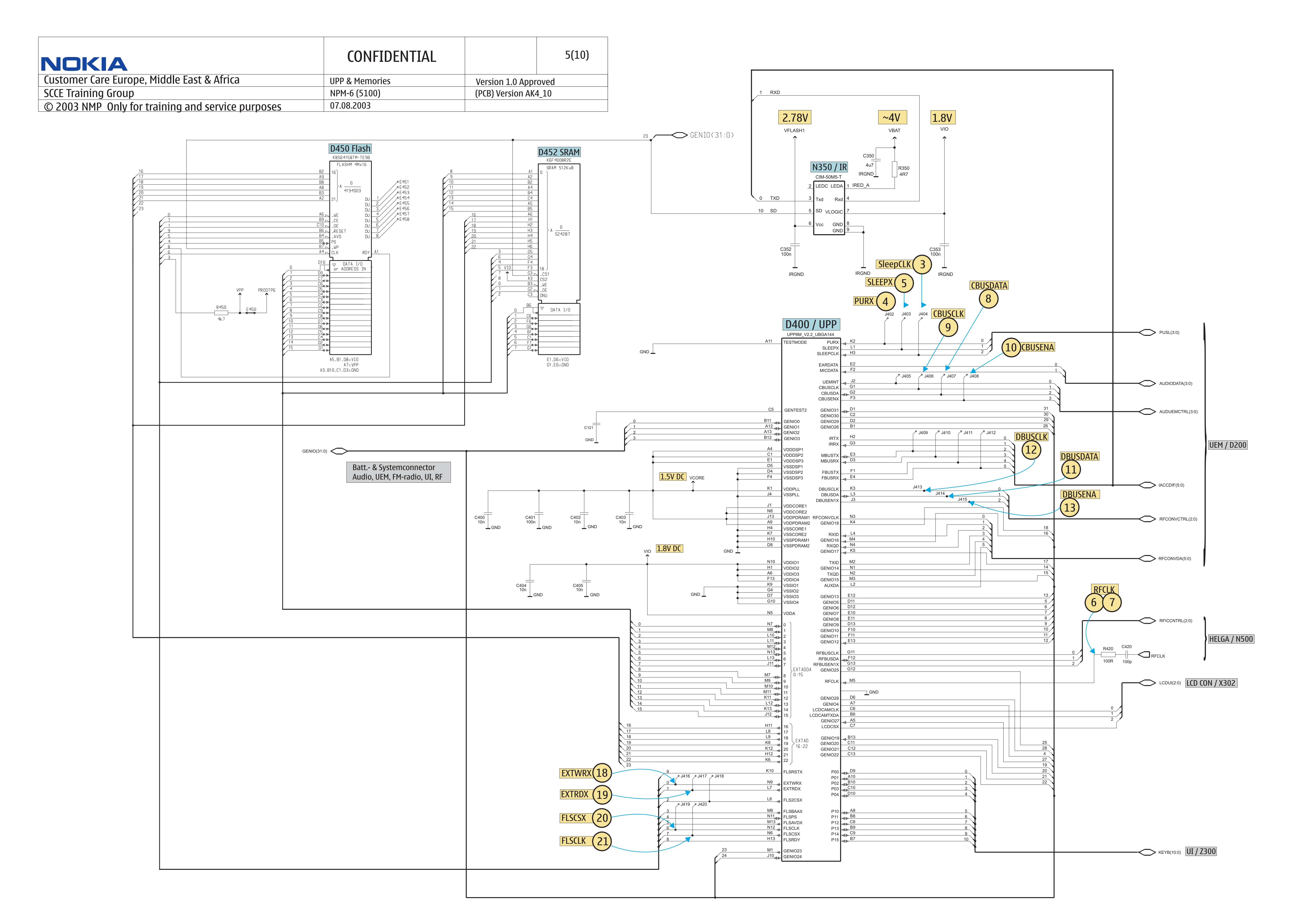


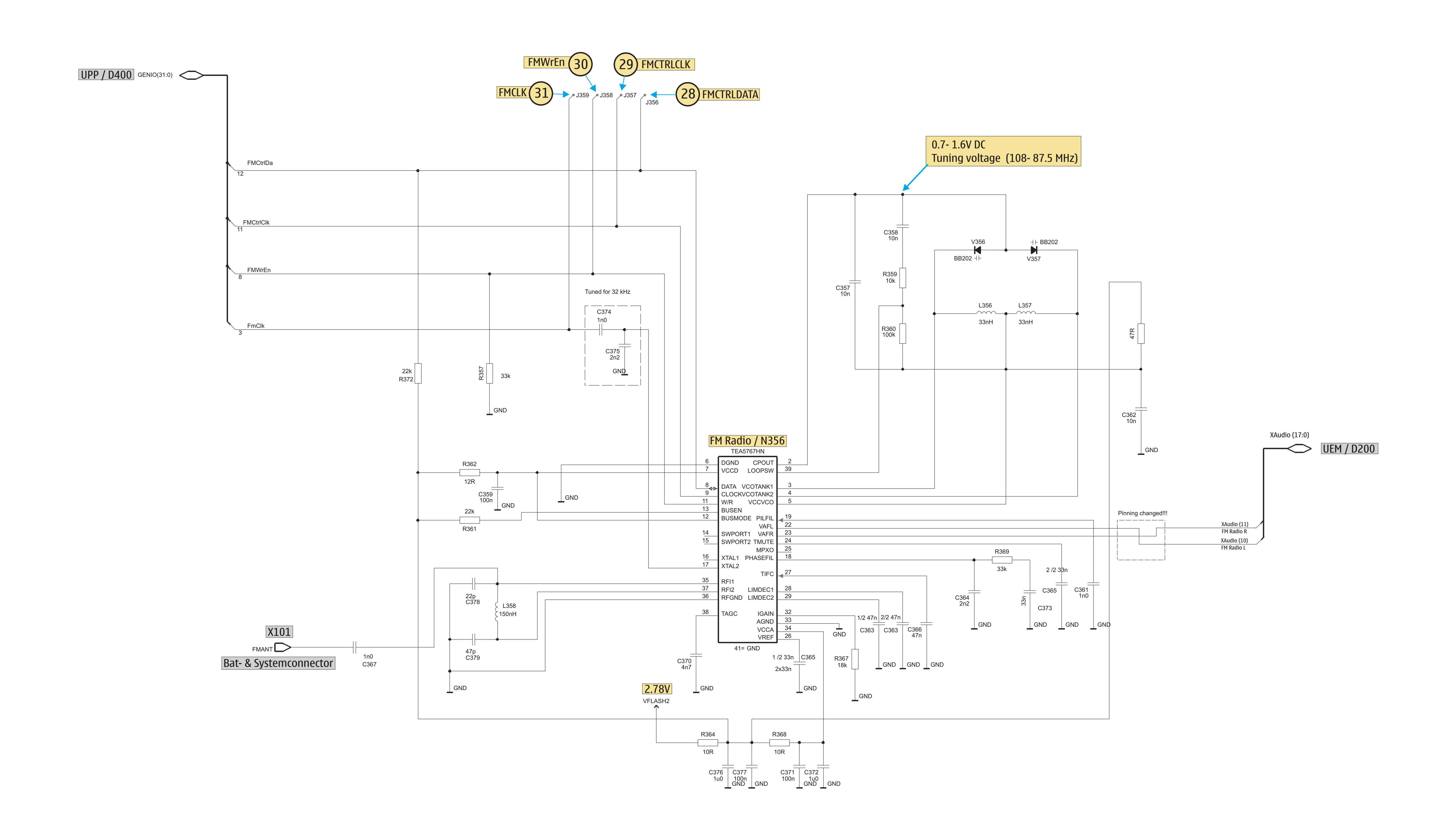
1.35V DC
B300 PICO Speaker
1.95V DC bias voltage
Microphone / IO19
UEM / D200
Close to UEM
1.95V DC bias voltage
X101
UEM / D200
UPP / D400
ENA 27
DATA 26
CLK 25
N150 AUDIO AMPLIFIER
LM4855IBLX
2V DC
IHF Speaker / IO14
"EARP"
"EARN"
"MICB1"
"MIC1P"
"MIC1N"
"HOOKINT"
"MICB2"
"MIC2P"
"MIC2N"
"HEADINT"
"HF"
"HFCM"
"MIC3P"
"MIC3N"
"PHONE AUDIO"
"FM-RADIO R"
"FM-RADIO L"
"XMICP"
"XMICN"
"LEFT N"
"LEFT P"
"RIGHT P"
"RIGHT N"
AUDIO(6:0)
XAUDIO(17:0)
GENIO(31:0)
XMIC(2:0)
HEADINT
XEAR(3:0)
VBAT
C3,C5= VBAT
C1,C7= GND



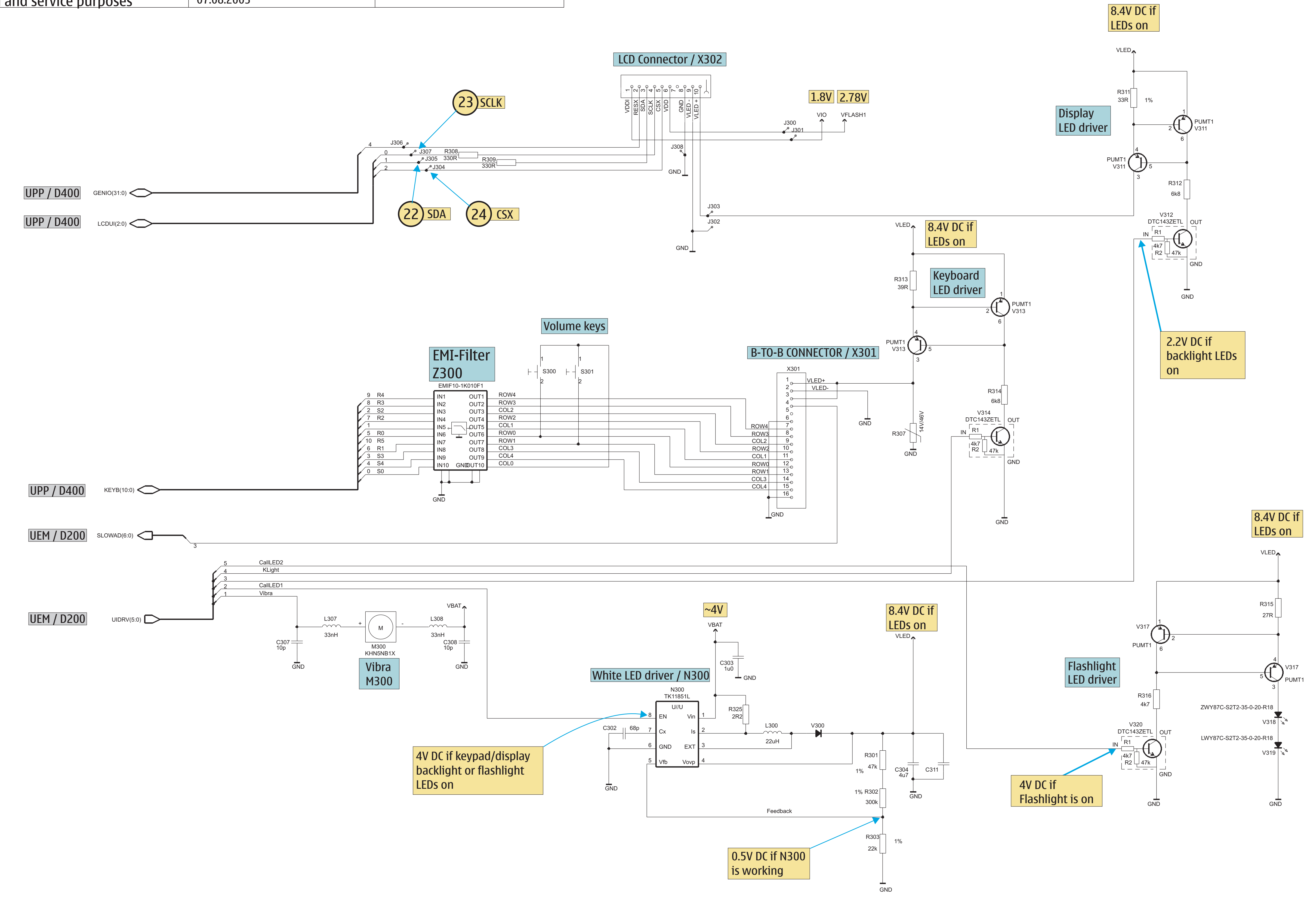
X101
Battery- and Systemconnector
D200 / UEM
~4V
If radio is active
1.8V
1.5V
2.78V
2.78V
2.78V
0.5V DC
32.768kHz
3.2V DC
32.768kHz
Audio
~4 V
Vibra / M300 N300 LED driver
33 VSIM
SIMcard reader
Battery- and Systemconnector
UPP / D400
RF
RF
1.35V DC
2.78V
2.8V
not used
4.7V
Battery- and Systemconnector, UI, RF

NOKIA	CONFIDENTIAL		5(10)
Customer Care Europe, Middle East & Africa	UPP & Memories	Version 1.0 Approved	
SCCE Training Group	NPM-6 (5100)	(PCB) Version AK4_10	
© 2003 NMP Only for training and service purposes	07.08.2003		



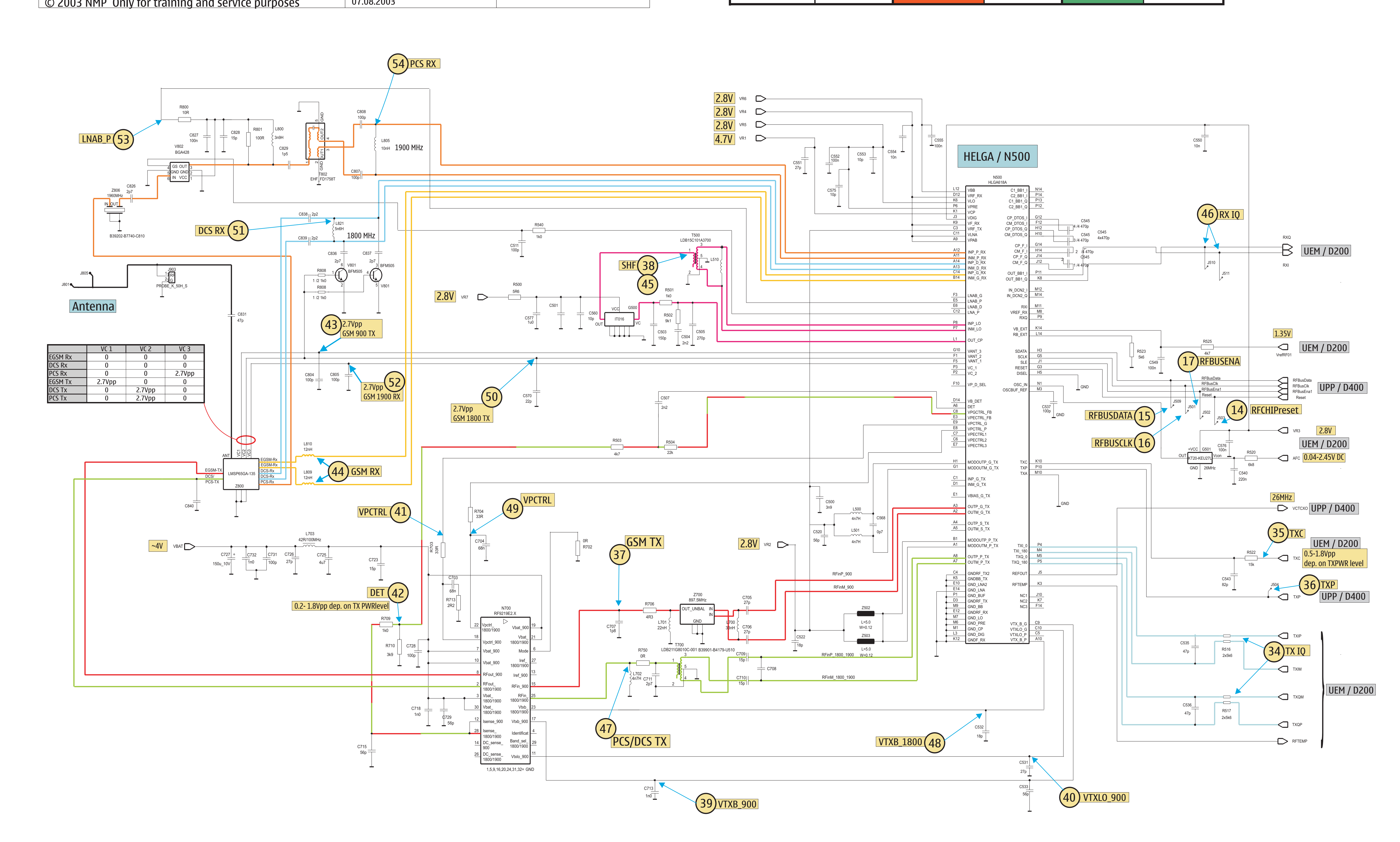


UPP / D400
GENIO(31:0)
FMWrEn 30
29 FMCTRLCLK
FMCLK 31
28 FMCTRLDATA
J359
J358
J357
J356
0.7- 1.6V DC
Tuning voltage (108- 87.5 MHz)
FMCtrlDa
FMCtrlClk
FMWrEn
FmClk
Tuned for 32 kHz
C374 1n0
C375 2n2
R372 22k
R357 33k
C358 10n
R359 10k
R360 100k
C357 10n
V356
V357
BB202
L356 33nH
L357 33nH
47R
C362 10n
FM Radio / N356
TEA5767HN
XAudio (17:0)
UEM / D200
Pinning changed!!!
XAudio (11) FM Radio R
XAudio (10) FM Radio L
R362 12R
C359 100n
R361 22k
R369 33k
C364 2n2
C365
C373
C361 1n0
C363
C366 47n
R367 18k
C378 22p
L358 150nH
C379 47p
X101
FMANT
Bat- & Systemconnector
C367 1n0
C370 4n7
2.78V
VFLASH2
R364 10R
R368 10R
C376 1u0
C377 100n
C371 100n
C372 1u0
GND

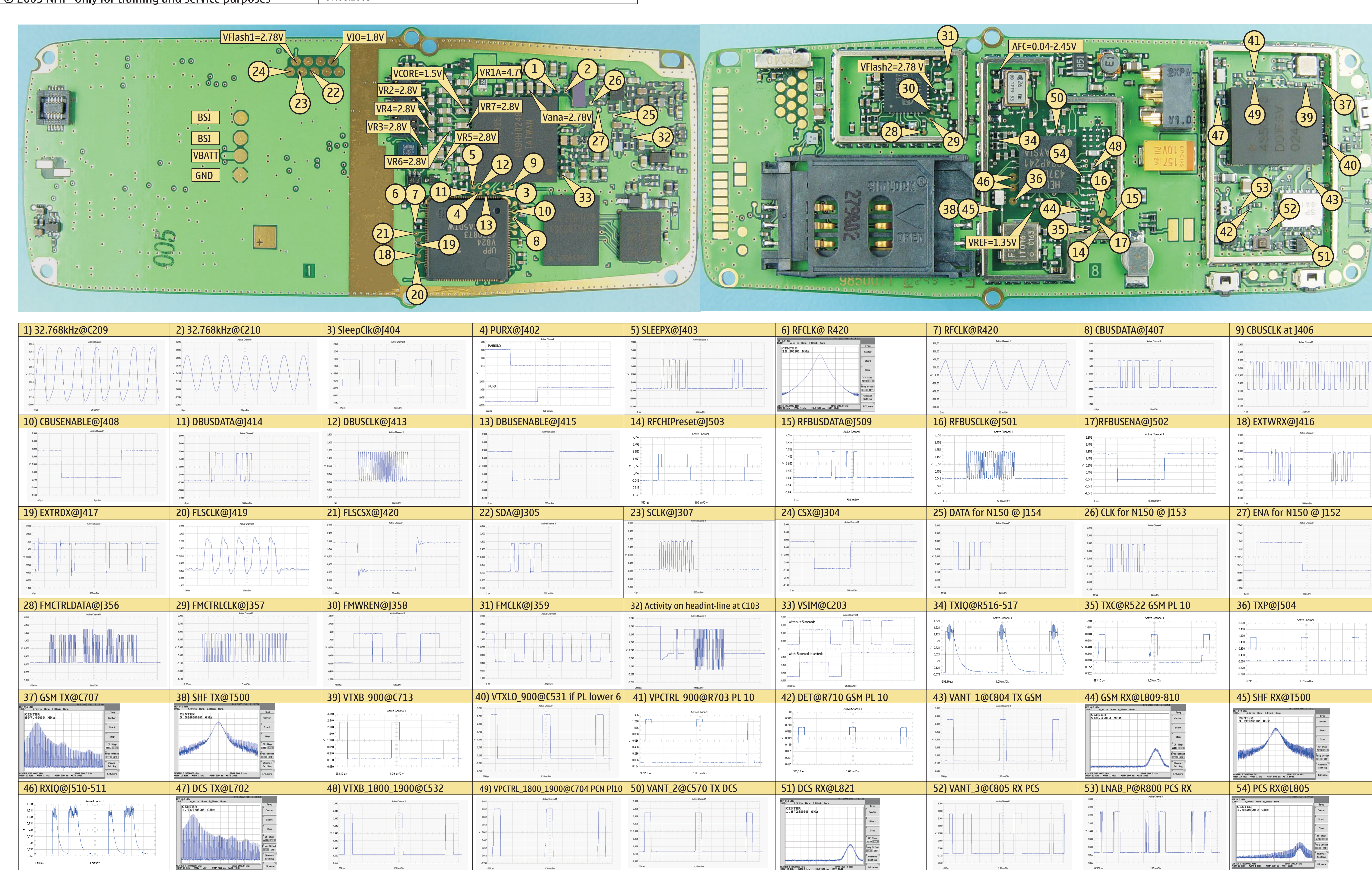


LCD Connector / X302
23 SCLK
22 SDA
24 CSX
1.8V
2.78V
UPP / D400
GENIO(31:0)
UPP / D400
LCDUI(2:0)
8.4V DC if LEDs on
Display LED driver
Keyboard LED driver
2.2V DC if backlight LEDs on
Volume keys
EMI-Filter Z300
B-TO-B CONNECTOR / X301
UPP / D400
KEYB(10:0)
UEM / D200
SLOWAD(6:0)
UEM / D200
UIDRV(5:0)
CallLED2
KLight
CallLED1
Vibra
Vibra M300
~4V
White LED driver / N300
Flashlight LED driver
4V DC if keypad/display backlight or flashlight LEDs on
4V DC if Flashlight is on
0.5V DC if N300 is working
Feedback

Band	Channel	RX	VCO/RX	TX	VCO/TX
GSM 900	37	942,4MHz	3769,6MHz	897,4MHz	3580,6MHz
GSM 1800	700	1842,8MHz	3685,6MHz	1747,8MHz	3495,6MHz
GSM 1900	661	1960MHz	3920MHz	1880MHz	3760MHz



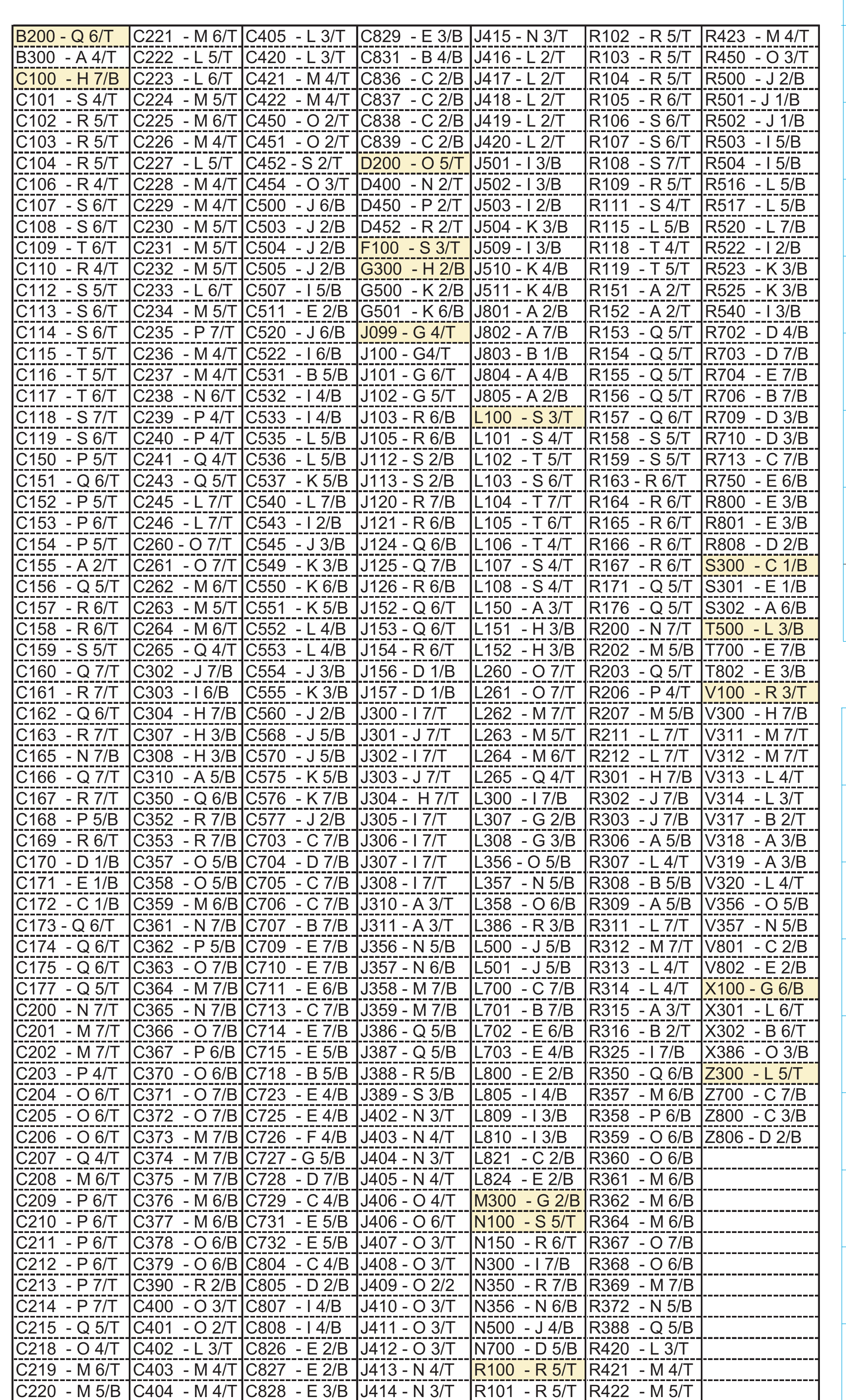
	VC 1	VC 2	VC 3
EGSM Rx	0	0	0
DCS Rx	0	0	0
PCS Rx	0	0	2.7Vpp
EGSM Tx	2.7Vpp	0	0
DCS Tx	0	2.7Vpp	0
PCS Tx	0	2.7Vpp	0



VFlash1=2.78V
VIO=1.8V
VCORE=1.5V
VR1A=4.7V
VR2=2.8V
VR4=2.8V
VR7=2.8V
VR3=2.8V
Vana=2.78V
VR5=2.8V
VR6=2.8V
BSI
BSI
VBATT
GND
AFC=0.04-2.45V
VFlash2=2.78 V
VREF=1.35V
1) 32.768kHz@C209
2) 32.768kHz@C210
3) SleepClk@J404
4) PURX@J402
5) SLEEPX@J403
6) RFCLK@ R420
7) RFCLK@R420
8) CBUSDATA@J407
9) CBUSCLK at J406
10) CBUSENABLE@J408
11) DBUSDATA@J414
12) DBUSCLK@J413
13) DBUSENABLE@J415
14) RFCHIPreset@J503
15) RFBUSDATA@J509
16) RFBUSCLK@J501
17)RFBUSENA@J502
18) EXTWRX@J416
19) EXTRDX@J417
20) FLSCLK@J419
21) FLSCSX@J420
22) SDA@J305
23) SCLK@J307
24) CSX@J304
25) DATA for N150 @ J154
26) CLK for N150 @ J153
27) ENA for N150 @ J152
28) FMCTRLDATA@J356
29) FMCTRLCLK@J357
30) FMWREN@J358
31) FMCLK@J359
32) Activity on headint-line at C103
33) VSIM@C203
34) TXIQ@R516-517
35) TXC@R522 GSM PL 10
36) TXP@J504
37) GSM TX@C707
38) SHF TX@T500
39) VTXB_900@C713
40) VTXLO_900@C531 if PL lower 6
41) VPCTRL_900@R703 PL 10
42) DET@R710 GSM PL 10
43) VANT_1@C804 TX GSM
44) GSM RX@L809-810
45) SHF RX@T500
46) RXIQ@J510-511
47) DCS TX@L702
48) VTXB_1800_1900@C532
49) VPCTRL_1800_1900@C704 PCN Pl10
50) VANT_2@C570 TX DCS
51) DCS RX@L821
52) VANT_3@C805 RX PCS
53) LNAB_P@R800 PCS RX
54) PCS RX@L805

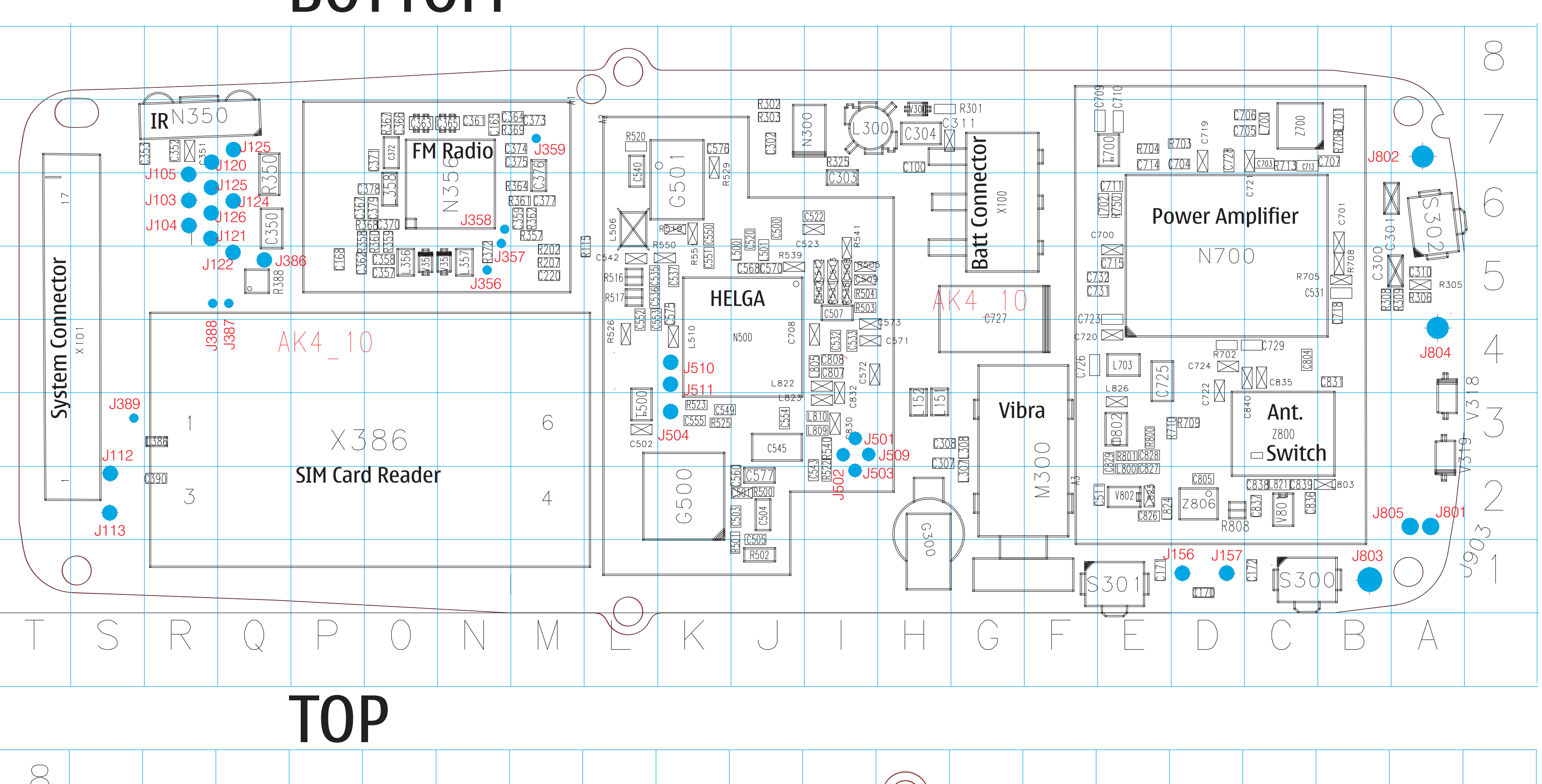
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SCCE Training Group

DCT4 RF
NPM-6 (5100)
07.08.2003
Version 1.0 Approved
(PCB) Version AK4_10



B200 - Q 6/T	C221 - M 6/T	C405 - L 3/T	C829 - E 3/B	J415 - N 3/T	R102 - R 5/T	R423 - M 4/T
B300 - A 4/T	C222 - L 5/T	C420 - L 3/T	C831 - B 4/B	J416 - L 2/T	R103 - R 5/T	R450 - O 3/T
C100 - H 7/B	C223 - L 6/T	C421 - M 4/T	C836 - C 2/B	J417 - L 2/T	R104 - R 5/T	R500 - J 2/B
C101 - S 4/T	C224 - M 5/T	C422 - M 4/T	C837 - C 2/B	J418 - L 2/T	R105 - R 6/T	R501 - J 1/B
C102 - R 5/T	C225 - M 6/T	C450 - O 2/T	C838 - C 2/B	J419 - L 2/T	R106 - S 6/T	R502 - J 1/B
C103 - R 5/T	C226 - M 4/T	C451 - O 2/T	C839 - C 2/B	J420 - L 2/T	R107 - S 6/T	R503 - I 5/B
C104 - R 5/T	C227 - L 5/T	C452 - S 2/T	D200 - O 5/T	J501 - I 3/B	R108 - S 7/T	R504 - I 5/B
C106 - R 4/T	C228 - M 4/T	C454 - O 3/T	D400 - N 2/T	J502 - I 3/B	R109 - R 5/T	R516 - L 5/B
C107 - S 6/T	C229 - M 4/T	C500 - J 6/B	D450 - P 2/T	J503 - I 2/B	R111 - S 4/T	R517 - L 5/B
C108 - S 6/T	C230 - M 5/T	C503 - J 2/B	D452 - R 2/T	J504 - K 3/B	R115 - L 5/B	R520 - L 7/B
C109 - T 6/T	C231 - M 5/T	C504 - J 2/B	F100 - S 3/T	J509 - I 3/B	R118 - T 4/T	R522 - I 2/B
C110 - R 4/T	C232 - M 5/T	C505 - J 2/B	G300 - H 2/B	J510 - K 4/B	R119 - T 5/T	R523 - K 3/B
C112 - S 5/T	C233 - L 6/T	C507 - I 5/B	G500 - K 2/B	J511 - K 4/B	R151 - A 2/T	R525 - K 3/B
C113 - S 6/T	C234 - M 5/T	C511 - E 2/B	G501 - K 6/B	J801 - A 2/B	R152 - A 2/T	R540 - I 3/B
C114 - S 6/T	C235 - P 7/T	C520 - J 6/B	J099 - G 4/T	J802 - A 7/B	R153 - Q 5/T	R702 - D 4/B
C115 - T 5/T	C236 - M 4/T	C522 - I 6/B	J100 - G4/T	J803 - B 1/B	R154 - Q 5/T	R703 - D 7/B
C116 - T 5/T	C237 - M 4/T	C531 - B 5/B	J101 - G 6/T	J804 - A 4/B	R155 - Q 5/T	R704 - E 7/B
C117 - T 6/T	C238 - N 6/T	C532 - I 4/B	J102 - G 5/T	J805 - A 2/B	R156 - Q 5/T	R706 - B 7/B
C118 - S 7/T	C239 - P 4/T	C533 - I 4/B	J103 - R 6/B	L100 - S 3/T	R157 - Q 6/T	R709 - D 3/B
C119 - S 6/T	C240 - P 4/T	C535 - L 5/B	J105 - R 6/B	L101 - S 4/T	R158 - S 5/T	R710 - D 3/B
C150 - P 5/T	C241 - Q 4/T	C536 - L 5/B	J112 - S 2/B	L102 - T 5/T	R159 - S 5/T	R713 - C 7/B
C151 - Q 6/T	C243 - Q 5/T	C537 - K 5/B	J113 - S 2/B	L103 - S 6/T	R163 - R 6/T	R750 - E 6/B
C152 - P 5/T	C245 - L 7/T	C540 - L 7/B	J120 - R 7/B	L104 - T 7/T	R164 - R 6/T	R800 - E 3/B
C153 - P 6/T	C246 - L 7/T	C543 - I 2/B	J121 - R 6/B	L105 - T 6/T	R165 - R 6/T	R801 - E 3/B
C154 - P 5/T	C260 - O 7/T	C545 - J 3/B	J124 - Q 6/B	L106 - T 4/T	R166 - R 6/T	R808 - D 2/B
C155 - A 2/T	C261 - O 7/T	C549 - K 3/B	J125 - Q 7/B	L107 - S 4/T	R167 - R 6/T	S300 - C 1/B
C156 - Q 5/T	C262 - M 6/T	C550 - K 6/B	J126 - R 6/B	L108 - S 4/T	R171 - Q 5/T	S301 - E 1/B
C157 - R 6/T	C263 - M 5/T	C551 - K 5/B	J152 - Q 6/T	L150 - A 3/T	R176 - Q 5/T	S302 - A 6/B
C158 - R 6/T	C264 - M 6/T	C552 - L 4/B	J153 - Q 6/T	L151 - H 3/B	R200 - N 7/T	T500 - L 3/B
C159 - S 5/T	C265 - Q 4/T	C553 - L 4/B	J154 - R 6/T	L152 - H 3/B	R202 - M 5/B	T700 - E 7/B
C160 - Q 7/T	C302 - J 7/B	C554 - J 3/B	J156 - D 1/B	L260 - O 7/T	R203 - Q 5/T	T802 - E 3/B
C161 - R 7/T	C303 - I 6/B	C555 - K 3/B	J157 - D 1/B	L261 - O 7/T	R206 - P 4/T	V100 - R 3/T
C162 - Q 6/T	C304 - H 7/B	C560 - J 2/B	J300 - I 7/T	L262 - M 7/T	R207 - M 5/B	V300 - H 7/B
C163 - R 7/T	C307 - H 3/B	C568 - J 5/B	J301 - J 7/T	L263 - M 5/T	R211 - L 7/T	V311 - M 7/T
C165 - N 7/B	C308 - H 3/B	C570 - J 5/B	J302 - I 7/T	L264 - M 6/T	R212 - L 7/T	V312 - M 7/T
C166 - Q 7/T	C310 - A 5/B	C575 - K 5/B	J303 - J 7/T	L265 - Q 4/T	R301 - H 7/B	V313 - L 4/T
C167 - R 7/T	C350 - Q 6/B	C576 - K 7/B	J304 - H 7/T	L300 - I 7/B	R302 - J 7/B	V314 - L 3/T
C168 - P 5/B	C352 - R 7/B	C577 - J 2/B	J305 - I 7/T	L307 - G 2/B	R303 - J 7/B	V317 - B 2/T
C169 - R 6/T	C353 - R 7/B	C703 - C 7/B	J306 - I 7/T	L308 - G 3/B	R306 - A 5/B	V318 - A 3/B
C170 - D 1/B	C357 - O 5/B	C704 - D 7/B	J307 - I 7/T	L356 - O 5/B	R307 - L 4/T	V319 - A 3/B
C171 - E 1/B	C358 - O 5/B	C705 - C 7/B	J308 - I 7/T	L357 - N 5/B	R308 - B 5/B	V320 - L 4/T
C172 - C 1/B	C359 - M 6/B	C706 - C 7/B	J310 - A 3/T	L358 - O 6/B	R309 - A 5/B	V356 - O 5/B
C173 - Q 6/T	C361 - N 7/B	C707 - B 7/B	J311 - A 3/T	L386 - R 3/B	R311 - L 7/T	V357 - N 5/B
C174 - Q 6/T	C362 - P 5/B	C709 - E 7/B	J356 - N 5/B	L500 - J 5/B	R312 - M 7/T	V801 - C 2/B
C175 - Q 6/T	C363 - O 7/B	C710 - E 7/B	J357 - N 6/B	L501 - J 5/B	R313 - L 4/T	V802 - E 2/B
C177 - Q 5/T	C364 - M 7/B	C711 - E 6/B	J358 - M 7/B	L700 - C 7/B	R314 - L 4/T	X100 - G 6/B
C200 - N 7/T	C365 - N 7/B	C713 - C 7/B	J359 - M 7/B	L701 - B 7/B	R315 - A 3/T	X301 - L 6/T
C201 - M 7/T	C366 - O 7/B	C714 - E 7/B	J386 - Q 5/B	L702 - E 6/B	R316 - B 2/T	X302 - B 6/T
C202 - M 7/T	C367 - P 6/B	C715 - E 5/B	J387 - Q 5/B	L703 - E 4/B	R325 - I 7/B	X386 - O 3/B
C203 - P 4/T	C370 - O 6/B	C718 - B 5/B	J388 - R 5/B	L800 - E 2/B	R350 - Q 6/B	Z300 - L 5/T
C204 - O 6/T	C371 - O 7/B	C723 - E 4/B	J389 - S 3/B	L805 - I 4/B	R357 - M 6/B	Z700 - C 7/B
C205 - O 6/T	C372 - O 7/B	C725 - E 4/B	J402 - N 3/T	L809 - I 3/B	R358 - P 6/B	Z800 - C 3/B
C206 - O 6/T	C373 - M 7/B	C726 - F 4/B	J403 - N 4/T	L810 - I 3/B	R359 - O 6/B	Z806 - D 2/B
C207 - Q 4/T	C374 - M 7/B	C727 - G 5/B	J404 - N 3/T	L821 - C 2/B	R360 - O 6/B	
C208 - M 6/T	C375 - M 7/B	C728 - D 7/B	J405 - N 4/T	L824 - E 2/B	R361 - M 6/B	
C209 - P 6/T	C376 - M 6/B	C729 - C 4/B	J406 - O 4/T	M300 - G 2/B	R362 - M 6/B	
C210 - P 6/T	C377 - M 6/B	C731 - E 5/B	J406 - O 6/T	N100 - S 5/T	R364 - M 6/B	
C211 - P 6/T	C378 - O 6/B	C732 - E 5/B	J407 - O 3/T	N150 - R 6/T	R367 - O 7/B	
C212 - P 6/T	C379 - O 6/B	C804 - C 4/B	J408 - O 3/T	N300 - I 7/B	R368 - O 6/B	
C213 - P 7/T	C390 - R 2/B	C805 - D 2/B	J409 - O 2/2	N350 - R 7/B	R369 - M 7/B	
C214 - P 7/T	C400 - O 3/T	C807 - I 4/B	J410 - O 3/T	N356 - N 6/B	R372 - N 5/B	
C215 - Q 5/T	C401 - O 2/T	C808 - I 4/B	J411 - O 3/T	N500 - J 4/B	R388 - Q 5/B	
C218 - O 4/T	C402 - L 3/T	C826 - E 2/B	J412 - O 3/T	N700 - D 5/B	R420 - L 3/T	
C219 - M 6/T	C403 - M 4/T	C827 - E 2/B	J413 - N 4/T	R100 - R 5/T	R421 - M 4/T	
C220 - M 5/B	C404 - M 4/T	C828 - E 3/B	J414 - N 3/T	R101 - R 5/T	R422 - M 5/T	

BOTTOM



TOP

